

Zinc Sulfide Lens Module TH17V1311D-34

- Cost effective lens for high volume application
- Designed for uncooled IR sensors
- Optimized for the 8-12 μ m wavelength range
- Outer face is coated DLC



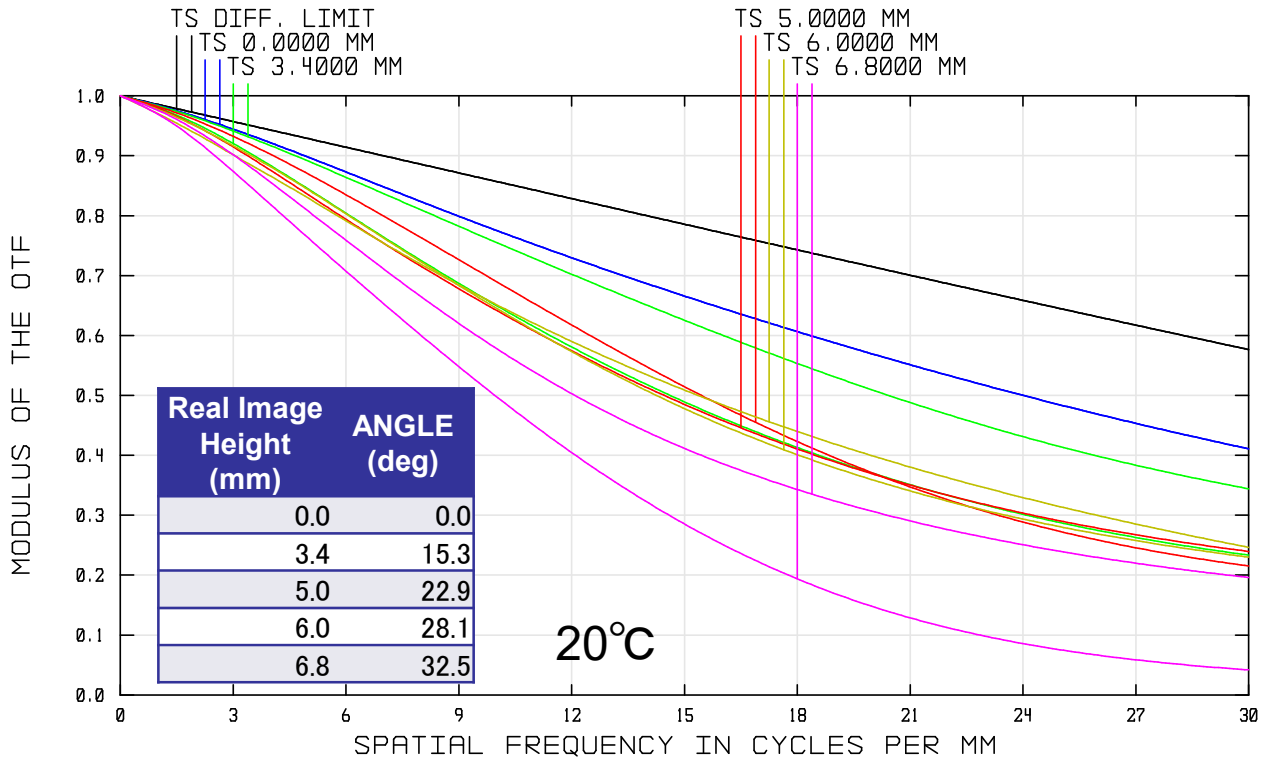
| Property | Value | Remarks |
|-----------------------------|-----------------------------------|------------------------|
| Optical | | |
| Focal Length | 13.0mm | code#0612 |
| F/# | 1.1 | |
| Horizontal Filed of View | 50.3° (A) / 36.2° (B) / 24.3° (C) | |
| Image Circle | 13.6mm | |
| Focus Adjustment | Manual | |
| Lens transmission (average) | 0.70 | wavelength8-12 μ m |
| Coating Type | DLC Coating*1 | wavelength8-12 μ m |
| Mechanical | | |
| Weight | 37g | |
| Lens Mount | Threaded | M34 × 0.5(Pitch)[mm] |
| Environmental | | |
| Operating Temperature | -40°C to +80°C | Athermalized |
| Sealing | IP69K | Front side |

*1 Environmental Test

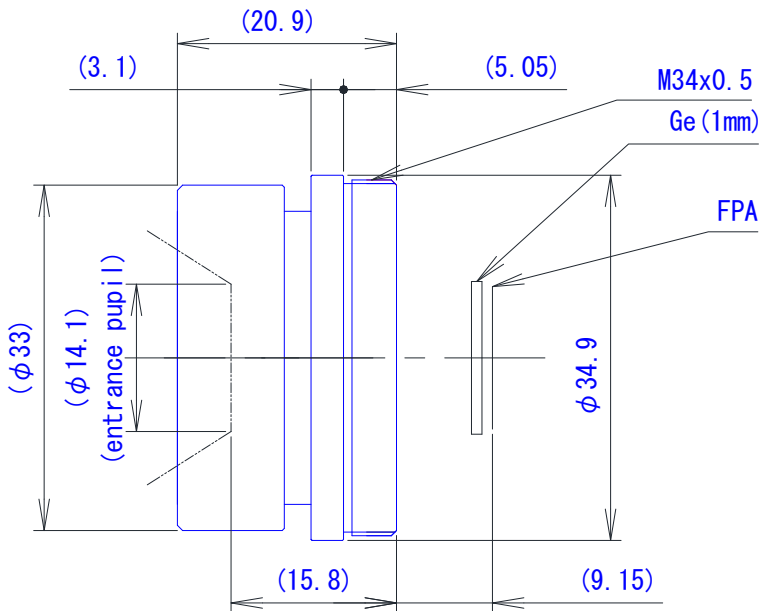
| | | |
|----------------|--|--------------------|
| Adhesion | Tape Test | MIL-F-48616 |
| Humidity | 85°C/95%X240h | MIL-F-48616 |
| Abrasion | Severe 20 stroke | MIL-F-48616 |
| Weatherability | UV+water X 1000h | JIS D 0205 WAN1S |
| Sand and Dust | 13.3m/s,<150 μ m, \geq 3h,0.33g/m ³ | MIL-STD-810G 510.5 |

| Type | Pitch | Pixels |
|------|------------|----------------|
| A | 17 μ m | 640x480 (VGA) |
| B | 25 μ m | 320x240 (QVGA) |
| C | 17 μ m | 320x240 (QVGA) |

MTF Curves



Layout



Distortion

